

## Lonestar and Somerset Est. 2009 Annual Drinking Water Quality Report

### Inorganic Contaminants

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2009	Barium	0.198	0.198	0.198	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2009	Fluoride	.02	.02	.02	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2009	Nitrate	0.06	0.06	0.06	10	10	ppm	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
2006	Combined Radium 226 & 228	0.6	0.6	0.6	5	0	pCi/L	Erosion of natural deposits.
2006	Gross beta emitters	5.5	5.5	5.5	50	0	pCi/L	Decay of natural and man-made deposits.
2006	Gross alpha	3.3	3.3	3.3	15	0	pCi/L	Erosion of natural deposits.

**Organic Contaminants** TESTING WAIVED, NOT REPORTED, OR NONE DETECTED

### Maximum Residual Disinfectant Level

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Chemical
2009	Chlorine Residual, Free	1.37	.5	2.8	4.0	4	ppm	Disinfectant to Control microbes.

**Disinfection Byproducts** NOT REPORTED OR NONE DETECTED

**Unregulated Initial Distribution System Evaluation for Disinfection Byproducts** WAIVED OR NOT YET SAMPLED

### Unregulated Contaminants

Bromoform, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant
2009 2008	Chloroform	0.4	0	0.8	ppb	Byproduct of drinking water disinfection.
2009 2008	Bromoform	2.6	0	5.2	ppb	Byproduct of drinking water disinfection.
2009 2008	Bromodichloromethane	0.5	0	1	ppb	Byproduct of drinking water disinfection.
2009 2008	Dibromochloromethane	1.55	0	3.1	ppb	Byproduct of drinking water disinfection.

## Lead and Copper

Year	Contaminant	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2002	Lead	7.5	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2002	Copper	0.144	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

### Required Additional Health Information for Lead

"If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water supply is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>."

### Turbidity NOT REQUIRED

**Fecal Coliform** REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA

### Secondary and Other Constituents Not Regulated

(No associated adverse health effects)

Year or Range	Constituent	Average Level	Minimum Level	Maximum Level	Secondary Limit	Unit of Measure	Source of Constituent
2009	Bicarbonate	171	171	171	NA	ppm	Corrosion of carbonate rocks such as limestone.
2009	Calcium	34.4	34.4	34.4	NA	ppm	Abundant naturally occurring element.
2009	Chloride	85	85	85	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2009	Cooper	0.009	0.009	0.009	1	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
2009	Iron	0.388	0.388	0.388	.3	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
2009	Lead	0.002	0.002	0.002	NA	ppm	Corrosion of household plumbing systems; erosion of natural deposits.
2009	Magnesium	5.2	5.2	5.2	NA	ppm	Abundant naturally occurring element.
2009	Manganese	0.0033	0.0033	0.0033	.05	ppm	Abundant naturally occurring element.
2009	Nickel	0.005	0.005	0.005	NA	units	Erosion of natural deposits.
2009	pH	6.8	6.8	6.8	>7.0	ppm	Measure of corrosivity of water.
2009	Sodium	64	64	64	NA	ppm	Erosion of natural deposits; byproduct of oil field activity.
2009	Sulfate	2	2	2	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2009	Total Alkalinity as CaCO <sub>3</sub>	140	140	140	NA	ppm	Naturally occurring soluble mineral salts.
2009	Total Dissolved Solids	317	317	317	1000	ppm	Total dissolved mineral constituents in water.
2009	Total Hardness as CaCO <sub>3</sub>	107	107	107	NA	ppm	Naturally occurring calcium.
2009	Zinc	0.026	0.026	0.026	5	ppm	Moderately abundant naturally occurring element; used in the metal industry.